



Florida Department of Environmental Protection

Southeast District
400 N. Congress Avenue, Suite 200
West Palm Beach, Florida 33401

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

August 7, 2007

ELECTRONIC CORRESPONDENCE

In the Matter of an
Application for Permit by:

U.S. Army Corps of Engineers
Jacksonville District Office
Ms. Marie G. Burns
Chief, Environmental Branch
701 San Marco Boulevard
Jacksonville, FL 32207
Email: Marie.G.Burns@saj02.usace.army.mil

PA File No. FL0569071-001-IW7A
Okeechobee County
USACE - Kissimmee River Aquifer Storage and
Recovery (ASR) Well Pilot Project Cycle Testing
Recovered Water Discharge Facility

NOTICE OF PERMIT ISSUANCE

Dear Ms. Burns:

Enclosed is Permit Number FL0569071, that authorizes the construction and operation of the subject ASR well cycle testing recovered water discharge facility, issued under Sections 403.087, 403.088 and 403.0885, Florida Statutes (F.S.)

Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes, within fourteen days of receipt of notice. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Under Rule 62-110.106(4), Florida Administrative Code, a person may request enlargement of the time for filing a petition for an administrative hearing. The request must be filed (received by the clerk) in the Office of General Counsel before the end of the time period for filing a petition for an administrative hearing.

Petitions by the applicant or any of the persons listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), Florida Statutes, must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), Florida Statutes, however, any person who has

asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for enlargement of time within fourteen days of receipt of notice shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the Department permit identification number and the county in which the subject matter or activity is located;
- (b) A statement of how and when each petitioner received notice of the Department action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department action;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- (f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing). The agreement must contain all the information required by Rule 28-106.404, Florida Administrative Code. The agreement must be received by the clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within ten days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

As provided in Section 120.573, Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57, Florida Statutes, for holding an administrative hearing and issuing a final order. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons seeking to protect their substantial interests that would be affected by such a modified final decision must file their petitions within fourteen days of receipt of this notice, or they shall be deemed to have waived their right to a proceeding under Sections 120.569 and 120.57, Florida Statutes. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57, Florida Statutes, remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.


This permit is final and effective on the date filed with the clerk of the Department unless a petition (or request for enlargement of time) is filed in accordance with the above. Upon the timely filing of a petition (or request for enlargement of time) this permit will not be effective until further order of the Department.

Any party to this permit has the right to seek judicial review under Section 120.68, Florida Statutes, by the filing of a notice of appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure with the clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when this permit is filed with the clerk of the Department.

If you have question please call Paul Sze at (561)681-6747 or email paul.sze@dep.state.fl.us.

Executed in West Palm Beach, Florida.

STATE OF FLORIDA
DEPT. OF ENVIRONMENTAL PROTECTION

 8/7/07

Linda A. Brien, P.G. Date
Water Facilities Administrator, Southeast District
400 N. Congress Ave., Suite 200
West Palm Beach 33401-2913

LB:TP/PS/s FL0569071-001-IW7A.doc/permit

Enclosures: Permit No. FL0569071 and Amended Statement of Basis
Discharge Monitoring Report (DMR) Forms

FILING AND ACKNOWLEDGMENT

FILED, on this date, under section 120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

 8/7/07

[Clerk] [Date]

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were transmitted before the close of business on August 7, 2007 to the listed persons.

Ms. Marie G. Burns
U.S. Army Corps of Engineers
Jacksonville District Office
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ec:	Monica Sudano, DEP/TLH	email to:	Monica.Sudano@dep.state.fl.us
	Terry.Davis, DEP/PSL	email to:	Terry.Davis@dep.state.fl.us
	Chris Jensen, DEP/TLH	email to:	Chris.Jensen@dep.state.fl.us
	Stanley Ganthier, DEP/WPB	email to:	Stanley.Ganthier@dep.state.fl.us
	Mark Shafer, USACE/Jacksonville	email to:	Mark.D.Shafer@saj02.usace.army.mil
	Joel Hall, Ch2M Hill/Jacksonville	email to:	JHALL1@ch2m.com



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Southeast District
400 N. Congress Avenue, Suite 200
West Palm Beach, Florida 33401

Charlie Crist
Governor

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Lt. Governor

Michael W. Sole
Secretary

STATE OF FLORIDA INDUSTRIAL WASTEWATER FACILITY PERMIT

PERMITTEE:

U.S. Army Corps of Engineers - Jacksonville
701 San Marco Boulevard
Jacksonville, FL 32207

PERMIT NUMBER: FL0569071 (Minor)
PA FILE NUMBER: FL0569071-001-IW7A
ISSUANCE DATE: August 7, 2007
EXPIRATION DATE: August 6, 2012

RESPONSIBLE AUTHORITY:

Ms. Marie G. Burns
Chief, Environmental Branch

FACILITY:

USACE - Kissimmee River Aquifer Storage and
Recovery (ASR) Well Pilot Project Cycle Testing
Recovered Water Discharge Facility
Approximately one mile northwest of Hwy. 78 Bridge
over the Kissimmee River
Okeechobee, FL 34974
Okeechobee County

Latitude: 27° 09' 17" N Longitude: 80° 52' 32" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and applicable rules of the Florida Administrative Code (F.A.C.), and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System (NPDES). The above named permittee is hereby authorized to construct and operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

PROJECT DESCRIPTION:

The facility is a pilot project for the Kissimmee River Aquifer Storage and Recovery (ASR) well system, initiated by USACE in conjunction with SFWMD. The ASR program is a component of the Comprehensive Everglades Restoration Plan (CERP), to enhance crucial water supply management for the state. Cycle tests include well recharge (injection) followed immediately by recovery or after short-duration storage. The tests are performed to determine the recovery efficiency - ratio of recovery volume with acceptable water quality versus volume recharged, and to establish changes in water quality from geochemical activities from storage. The ASR system consists of a single 24-inch diameter Class V, Group 7 injection well (*permitted by others under UIC Permit No. 200917-001-UC, issued to South Florida Water Management District*), and will recharge, store and recover water from the upper Floridan Aquifer System, a confined aquifer ranging in depths between 600 to 1,000 feet bls.

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During recharge, raw surface water is withdrawn from the Kissimmee River, treated by screening, filtration, and disinfection before injection to the aquifer for storage. In recovery, the recovered well water is aerated, and retreated if necessary, before returning to the Kissimmee River. System reject water including first flush from the startup of recovery, and filter backwash water, will be discharged to a two-cell retention pond system: backwash equalization pond (first unit) and backwash solids pond (second unit).

This permit authorizes the discharge to surface water of up to five (5.0) MGD or 3,500 gpm, based on a maximum daily flow basis, of treated recovered water from the ASR well. The recovered water is expected to consist mostly of treated surface water stored in the Floridan Aquifer, and to a lesser degree the native brackish water in the aquifer. The single ASR well pump has recharge and recovery capacities rated at 3,600 and 3,500 gpm, respectively.

WATER TREATMENT:

Treatment is provided for the recharge (pre-storage) and recovery (post-storage) stages with the following schemes:

Recharge Water Treatment Process - Raw surface water treatment process includes a coarse intake screen (passive type) with 1-mm slot openings at the intake structure. This is followed by a triple-media (sand, anthracite and gravel) pressure filter system with four cells, and each filter cell has a 150 sf surface area. An ultraviolet (UV) light process provides disinfection of the filtered surface water before recharge into the ASR well.

Recovery Water treatment Process - The initial recovered ASR well water ("first flush" from first hour) will be diverted to the backwash equalization pond. After that, the recovered well water, that meets the discharge criteria, will be aerated by a 11.2 foot high and 21 foot wide cascade aerator, before discharge into the river. The aeration process is designed to achieve a dissolved oxygen level of 6.00 mg/L at a 5.2 MGD design flow rate. The recovered water may also be diverted first to the pressure filter system for retreatment, before the aeration process, if further treatment is determined necessary. The decant water removed from the backwash pond system may also be discharged by blending it with the recovered well water before the aeration process. Retreatment of the decant water may also be necessary to meet the discharge criteria.

EFFLUENT DISPOSAL:

Surface Water Discharge:

A new 5.0 MGD maximum discharge to Kissimmee River (Class III Fresh waters), D-001. The Kissimmee River Outfall is located approximately at latitude 27° 09' 17" N, longitude 80° 52' 32" W. The outfall pipe is approximately 140 feet upstream of the intake structure. The river outfall will consist of a 16-inch diameter submerged outfall pipe emerging from the bottom pit of the cascade aerator. There is a second 24-inch diameter emergency outfall pipe, D-002, to the river located at approximately 15 feet south of Outfall D-001. The emergency overflow pipe would provide relief to the two filter backwash holding ponds, to prevent catastrophic failure at the site in extreme inclement weather or other emergency only.

Land Application (Groundwater Recharge):

The land application system (R-001) consists of the two-cell retention pond system at the site: a backwash equalization pond (first unit) and backwash solids pond (second unit). Land application system R-001 is also located in the proximity of latitude 27° 09' 17" N, longitude 80° 52' 32" W. This retention pond system is used for the retention of "first flush" from the initial stage in the recovery cycle, filter backwash water and backwash solids sediment.

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IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Part I through Part VIII on pages 3 through 20 of this permit.

PERMITTEE:

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Jacksonville District Office
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I. Effluent Limitations and Monitoring Requirements

A. Surface Water Discharges

- During the period beginning upon placing the system into operation and lasting through the expiration date of this permit, the permittee is authorized to discharge recovered water from an ASR well, from Outfall D-001. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.E.3.:

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	Report	5.0	--	Daily	Meter	EFF-01
Flow, Total Volume (MGAL)	Report (total flow)	--	--	Daily	Meter	EFF-01
Chloride (as Cl) (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Specific Conductance (UMHO/CM)	--	See Cond. I.A.6.	--	Monthly	Grab	EFF-01
Specific Conductance (Background) (UMHO/CM)	--	Report	--	Monthly	Grab	SWA-01
Solids, Total Dissolved (TDS) (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Temperature (C), Water (DEG.C)	--	Report	--	Monthly	Grab	EFF-01
pH (SU)	--	8.5	6.0	Monthly	Grab	EFF-01
Arsenic, Total Recoverable (UG/L)	--	36	--	Monthly	Grab	EFF-01
Alpha, Gross Particle Activity (PCI/L)	--	15	--	Monthly	Grab	EFF-01
Coliform, Total (#/100ML)	--	See Cond. I.A.8.	--	Monthly	Grab	EFF-01
Coliform, Fecal (#/100ML)	--	See Cond. I.A.9.	--	Monthly	Grab	EFF-01
Carbon, Total Organic (TOC) (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Turbidity (NTU)	--	See Cond. I.A.7.	--	Monthly	Grab	EFF-01
Turbidity (Background) (NTU)	--	Report	--	Monthly	Grab	SWA-01
Solids, Total Suspended (MG/L)	--	Report	--	Monthly	Grab	EFF-01

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Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Oxygen, Dissolved (DO) (MG/L)	--	--	5.0	Monthly	Grab	EFF-01
Iron, Total Recoverable (MG/L)	--	1.0	--	Monthly	Grab	EFF-01
Color (PT-CO)	--	Report	--	Monthly	Grab	EFF-01
Mercury, Total Recoverable (UG/L)	--	0.012	--	Monthly	Grab	EFF-01
Mercury, Methyl (UG/L)	--	Report	--	Monthly	Grab	EFF-01
Phosphorus, Total (as P) (MG/L)	--	See Cond. I.A.10.	--	Monthly	Grab	EFF-01
Sulfate, Total (MG/L)	--	Report	--	Monthly	Grab	EFF-01
Whole Effluent Toxicity (Acute)	See Permit Conditions I.A.14 and I.A.15					EFF-01

2. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.A.1 and as described below:

Sample Point	Description of Monitoring Location
EFF-01	Sample for the Kissimmee River recovery discharge is taken at the cascade aerator river outfall structure.
SWA-01	Background sample for the Kissimmee River is taken from a location upstream of outfall unimpacted by the recovery discharge. Typically, it should be at least 50 feet to 100 feet upstream of the outfall. The final location and distance should be determined on the field by the sampler, based on his/her assessment of the stream flow direction and velocity factors, and the estimated likely boundary limit of the impacted zone.

3. The Discharge Monitoring Reports (DMR's) required in this section shall be submitted monthly pursuant to Permit Condition I.E.3, regardless of the level or absence of discharge activity. If in the entire month there is no discharge of recovered groundwater to the Kissimmee River, the NO DISCHARGE FROM SITE ☐ check-off box on page 1 of the DMR shall be checked, and sampling is not required.
4. "Discharge" is defined as the planned diversion of the recovery stream to the river outfall for normal release, flushing or other intended disposal purposes. The intermittent disposal to the outfall of minimal amount of spent test water from flow-through of the continuous inline samplers/analyzers, from monitoring of water quality during the recharge and recovery operations, is excluded from this definition.
5. All sampling events required in this section should be scheduled, where feasible, further away from the earlier days of the recovery cycle. The samples should be representative of the overall recovered water quality, taking into account a likely higher presence of native brackish water later in the recovery cycle. If more than one analytical result is collected for any monitored parameters, the most critical data set shall be reported.

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6. The limit for Specific Conductance shall be 1.5 times the background value or 1,275 UMHOS/CM, whichever is greater.

The measured effluent value shall be recorded on the DMR in the parameter row for Specific Conductance (effluent). The measured background value shall be recorded on the DMR in the parameter row for Specific Conductance (background). The calculated effluent limit shall be recorded on the DMR in the parameter row for Specific Conductance (calculated limit). Compliance with the effluent limitation is determined by calculating the difference between the measured effluent value and the calculated effluent limit. The compliance value shall be recorded on the DMR in the parameter row for Specific Conductance (effluent minus calculated limit). If the compliance value is greater than 0.00, the permittee will be considered in violation of the limitation.

* The permittee may waive sampling of the background level for Specific Conductance if the discharge limit of 1,275 UMHOS/CM is met at the end-of-pipe.

7. The limit for Turbidity shall be calculated as follows:

Limit = Background Turbidity + 29 NTU

The measured effluent value shall be recorded on the DMR in the parameter row for Turbidity (effluent). The measured background value shall be recorded on the DMR in the parameter row for Turbidity (background). The calculated effluent limit shall be recorded on the DMR in the parameter row for Turbidity (calculated limit). Compliance with the effluent limitation is determined by calculating the difference between the measured effluent value and the calculated effluent limit. The compliance value shall be recorded on the DMR in the parameter row for Turbidity (effluent minus calculated limit). If the compliance value is greater than 0.00, the permittee will be considered in violation of the limitation.

* The permittee may waive sampling of the background level for Turbidity if the discharge limit of 29 NTU is met at the end-of-pipe.

8. Total Coliform Bacteria Limit - Less than or equal to 1,000 as a monthly average, nor exceed 1,000 in more than 20% of the samples examined during any month; less than or equal to 2,400 at any time. Monthly averages shall be expressed as geometric means based on the actual number of tests performed in the month, using either most probable number (MPN) or membrane filter (MF) counts.
9. Fecal Coliform Bacteria Limit - Most probable number (MPN) or membrane filter (MF) counts shall not exceed a monthly average of 200, nor exceed 400 in 10% of the samples, nor exceed 800 on any one day. Monthly averages shall be expressed as geometric means based on the actual number of tests performed in the month.
10. Total Phosphorus Limit - The discharge of nutrients shall continue to be limited as needed to prevent violations of other standards contained in Chapter 302, F.A.C. Man-induced nutrient enrichment (total nitrogen or total phosphorus) shall be considered degradation in relation to the provisions of Sections 62-302.300, 62-302.700, and 62-4.242, F.A.C. In no case shall nutrient concentrations of a body of water be altered so as to cause an imbalance in natural populations of aquatic flora or fauna.
11. There shall be no discharge of floating solids or visible foam in other than trace amounts.
12. The discharge shall not cause a visible sheen on the receiving water.
13. The permittee will be required to provide additional water treatment, or otherwise improve or modify the canal discharge operation, if the recovered water discharge quality fails to conform with the permit standards.

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14. **Routine Toxicity Testing.** A determination of the toxicity of the ASR recovered water shall be conducted during each recovery-to-canal discharge event in accordance with the following protocol. However, all canal discharge events with a total duration lasting under 60 minutes over a 24-hour period, or 120 minutes over a 7-day period, are exempted from the testing requirement:
- a. Effluent Limitation
 1. Whole effluent acute toxicity shall not exceed in any "routine" or in any "additional follow-up" test an LC50 of less than 100% effluent. [Rule 62-302.200(1), Rule 62-302.500(1)(a)4 and Rule 62-4.244(3)(a), F.A.C.]
 - b. Monitoring Frequency
 1. "Routine" toxicity tests shall be conducted once every two months, for the duration of the permit, unless a reduction in the frequency of monitoring is granted in writing by the Department.
 2. Upon completion of six consecutive, valid "routine" tests that demonstrate compliance with the effluent limitation in section a.1. above, the permittee may submit a written request to the Department for a reduction in monitoring frequency. The Department shall review this request within 45 days of receipt and approve or deny the request in writing. Materials submitted to the Department for review should include a summary of the data and the complete bioassay reports for all tests being considered. In no case shall the frequency of monitoring be reduced to less than annually. Requested reductions in monitoring shall only become effective upon Department approval.
 3. If a test within a sequence of the six consecutive tests is deemed invalid, but is replaced by a repeat valid test initiated within seven days of the invalidation, the invalid test will not be counted against the requirement for six consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency. If two or more invalidations occur, this provision does not apply.
 - c. Test Requirements
 1. Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: **100%, 50%, 25%, 12.5%, and 6.25%** effluent.
 2. Additional Follow-up Tests, if required:
 - (a) If a routine test does not meet the acute toxicity limitation in section a.1. above, the permittee shall conduct two additional follow-up tests on each species that failed the test.
 - (b) The first and second additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5% and 6.25% effluent. All test results shall be statistically analyzed according to the Appendices in EPA-821-R-02-012.
 - (c) The first test shall be initiated within two weeks of the end of the failed routine test. The remaining additional follow-up test shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
 3. The permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the daphnid, **Ceriodaphnia dubia**, and the bannerfin shiner, **Cyprinella leedsii**, concurrently.
 4. All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, EPA-821-R-02-012. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised and adopted by Department rule, the permittee shall conduct acute toxicity testing in accordance with the revised method.

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5. The control water and dilution water used will be moderately hard water as described in EPA-821-R-02-012, Table 7, or the most current edition.

d. Sampling Requirements

1. Routine tests shall be conducted on four separate grab samples collected over the recovery period in order to catch any peaks of toxicity associated with changes in effluent quality as indicated in changes in specific conductance levels. The first sample will be collected on the second day of the recovery phase of the cycle.
2. The two additional follow-up tests, if required, will be conducted on two separate grab samples collected following a failed routine test. The grab sample for the first additional follow-up test will be collected within one-week of the end of the failed routine test. The collection of grab samples for the additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed. Results for each additional test shall include the determination of LC50 values with 95% confidence limits.

e. Quality Assurance Requirements

1. A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or no greater than 30 days before the date of each routine or additional follow-up test conducted. The SRT-QA data shall be submitted with each companion routine or additional follow-up test required.
2. If the mortality in the control (0% effluent) exceeds 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated.
3. If during any routine separate grab sample test, 100% mortality occurs prior to the end of the test and control mortality is less than 10% at that time, that test (including the control) shall be terminated with the conclusion that the test fails.
4. Additional follow-up tests shall be evaluated for acceptability based on the concentration-response relationship as required and described by EPA-821-R-02-012, Section 12.2.6.2.

f. Reporting Requirements

1. Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine Test Results: If an LC50 > 100% effluent occurs in all four separate grab sample tests for the test species, ">100%" should be entered on the DMR for that test species. If in any of the four separate grab sample tests for the test species a LC50 < 100% effluent occurs, the lowest calculated LC50 effluent concentration shall be entered on the DMR for that test species.
 - (b) Additional Follow-up Test Results: Report the calculated LC50 value for that test species.
2. A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review and mailed to the Department at the address below within 30 days of the completion of the test.
3. For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-012, Section 12, and mailed within 45 days of completion of the second valid additional follow-up test. If any additional follow-up test, or two consecutive routine tests, do not meet the effluent limitation specified in 1.a. above, the permittee shall contact with the Department within 30 days of the laboratory report submittal to discuss the corrective actions necessary to remedy the observed acute toxicity.

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4. All bioassay reports shall be submitted to the Department at the addresses listed Permit Condition I.E.3.
 - g. **Alternative Methodology.** The Department understands that a protocol is being developed during Phase 1 (Screening-Level Method Development) of the "Preliminary Investigation of the Ecotoxicological Effects of Recovered ASR Water on Receiving Water Ecosystems" (SOW C-C13401P-WO07). Once the methods are developed under the Phase 1 effort, the developed methods shall be provided to the Department for review and approval. Be aware that if the study recommends testing in any species other than those approved by EPA in 40 CFR 136 for whole effluent toxicity testing in NPDES permits, these test organisms and any modification to the approved methods must be approved by EPA before they can be considered. If the recommended organisms are not approved by EPA they cannot be used for permit compliance, nevertheless, they could provide valuable information to the Regional Study goals and can be pursued to augment the information obtained by the approved methods.
15. **Specific Conductivity Toxicity Testing.** Toxicity testing is to be conducted during the first canal discharge event lasting over 60 minutes in a 24-hour period, to determine the toxicity effects of the mixed recovered water under variable specific conductance ranges. However, all canal discharge events with specific conductance below 1,275 micromhos/cm ($\mu\text{mhos/cm}$) are exempted from this testing requirement:
- a. **Monitoring Frequency**
 1. This toxicity testing shall commence when the specific conductance exceeds 1,275 micromhos/cm ($\mu\text{mhos/cm}$) and shall continue once every five days for the duration of the 15 day discharge event or once every six days if the event is scheduled for greater than 15 days.
 2. The specific conductance and the ionic components of the reclaimed water (Cl, Ca, Mg) shall be analyzed concurrent with the toxicity testing.
 - b. **Test Requirements**

Toxicity testing shall be conducted in accordance with Permit Condition I.A.14.c.
 - c. **Sampling Requirements**

All tests will be conducted on a single grab sample.
 - d. **Quality Assurance Requirements**

Quality Assurance shall be performed in accordance with Permit Condition I.A.14.e.
 - e. **Reporting Requirements**
 1. Results from the first cycle test shall be submitted in a single bioassay report prepared according to EPA-821-R-02-012, Section 12, Report Preparation, or the most current edition, and mailed to the Department within 90 days of completion of the cycle test. Specific conductivity measurements and ionic components shall be reported concurrently with the associated bioassay report.
 2. All bioassay reports shall be provided to the Department at the addresses listed in listed Permit Condition I.E.3.
 - f. **Alternative Methodology**

Alternative methodologies will be addressed as described in Permit Condition I.A.14.g.

B. Underground Injection Control Systems

1. This section is not applicable to this facility.

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C. Land Application Systems

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge, via percolation or groundwater-recharge only, of process wastewater (filter backwash water) at Land Application System R-001, a two-cell retention pond system. Discharge of process wastewater by this method is permitted without limitation or monitoring requirements.
2. There shall be no discharge from the two filter backwash holding ponds to the river, except in extreme inclement weather or other emergency, to prevent catastrophic failure at the site.

D. Other Methods of Disposal or Recycling

1. There shall be no discharge of industrial wastewater from this facility to ground or surface waters, except as authorized by this permit.

E. Other Limitations and Monitoring and Reporting Requirements

1. The sample collection, analytical test methods and method detection limits (MDLs) applicable to this permit shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantification limits), which is titled "Florida Department of Environmental Protection Table as Required By Rule 62-4.246(4) Testing Methods for Discharges to Surface Water" is available online at the following website address: <http://www.dep.state.fl.us/labs/guidance/index.htm>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
 - a. The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
 - b. The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide a MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
 - c. If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantification limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs and PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is in accordance with 40 CFR 136.

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2. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method to assure compliance with applicable water quality standards and effluent limitations in accordance with 40 CFR Part 136. All monitoring shall be representative of the monitored activity.
3. Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Southeast District Office Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e., monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below.

REPORT Type on DMR	Monitoring Period	DMR Due Date
Monthly or Toxicity	first day of month – last day of month	28 th day of following month
Quarterly	January 1 - March 31 April 1 – June 30 July 1 – September 30 October 1 – December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 – June 30 July 1 – December 31	July 28 January 28
Annual	January 1 – December 31	January 28

DMRs shall be submitted for each required monitoring period including months of no discharge.

The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department at the address specified below:

Florida Department of Environmental Protection
Wastewater Compliance Evaluation Section, Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

4. Unless specified otherwise in this permit, all reports and notifications required by this permit, including twenty-four hour notifications, shall be submitted to or reported to the Southeast District Office at the address specified below:

Florida Department of Environmental Protection
Southeast District Office
400 N. Congress Avenue, Suite 200
West Palm Beach, FL 33401-2913
Phone Number - (561) 681-6600
FAX Number - (561) 681-6760 (All FAX copies shall be followed by original copies.)
5. All reports and other information shall be signed in accordance with requirements of Rule 62-620.305, F.A.C.
6. The permittee shall provide safe access points for obtaining representative samples which are required by this permit.

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7. If there is no discharge from the facility on a day scheduled for sampling, the sample shall be collected on the day of the next discharge.
8. Any bypass of the treatment facility which is not included in the monitoring specified in sections I.A, I.B, I.C, or I.D, is to be monitored for flow and all other required parameters. For parameters other than flow, at least one grab sample per day shall be monitored. Daily flow shall be monitored or estimated, as appropriate, to obtain reportable data. All monitoring results shall be reported on the appropriate DMR.

II. Industrial Sludge Management Requirements

1. This section not applicable to this facility.

III. Ground Water Monitoring Requirements

1. This section is not applicable to this facility.

IV. Other Land Application Requirements

1. This section is not applicable to this facility.

V. Operation and Maintenance Requirements

A. Treatment and Disposal Facilities

1. The permittee shall ensure that the operation of this facility is as described in the application and supporting documents.
2. The operation of the pollution control facilities described in this permit shall be under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control.

B. Record keeping Requirements:

1. The permittee shall maintain the following records on the site of the permitted facility and make them available for inspection:
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports, other than those required in items a. and f. of this section, required by the permit for at least three years from the date the report was prepared, unless otherwise specified by Department rule;
 - c. Records of all data, including reports and documents used to complete the application for the permit for at least three years from the date the application was filed, unless otherwise specified by Department rule;
 - d. A copy of the current permit;
 - e. A copy of any required record drawings;

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- f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date on the logs or schedule.

VI. Schedules

1. The permittee shall achieve compliance with the other conditions of this permit as follows:

Operational level attained	Issuance Date of permit
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2. No later than 14 calendar days following a date identified in the above schedule(s) of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by an identified date, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

VII. Other Specific Conditions

A. Specific Conditions Applicable to All Permits

1. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the Southeast District Office, are made a part hereof.
2. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) F.S., applicable portions of reports to be submitted under this permit, shall be signed and sealed by the professional(s) who prepared them.
3. This permit satisfies Industrial Wastewater program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by local, state or federal agencies.
4. The permittee shall provide verbal notice to the Department as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater or sludge. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department in a written report within 7 days of the sinkhole discovery.

B. Specific Conditions Related to Construction

1. Within thirty days of completion of construction, the permittee shall submit to the Department a completed "Certification of Completion of Construction" (DEP Form 62-620.910(12)) signed and sealed by the engineer of record or other engineer registered in the state of Florida.
2. Record drawings shall be prepared and made available in accordance with Rule 62-620.410(6), F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting within six months of placing the facilities into operation.

C. Duty to Reapply

1. The permittee shall apply for renewal of this permit at least 180 days before the expiration date of the permit using the appropriate forms listed in Rule 62-620.910, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C. The existing permit shall not expire until the Department has taken final action on the application renewal in accordance with the provisions of 62-620.335(3) and (4), F.A.C.

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D. Specific Conditions Related to Existing Manufacturing, Commercial, Mining, and Silviculture Wastewater Facilities or Activities

1. Existing manufacturing, commercial, mining, and silvicultural wastewater facilities or activities that discharge into surface waters shall notify the Department as soon as they know or have reason to believe:
 - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels
 - (1) One hundred micrograms per liter,
 - (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony, or
 - (3) Five times the maximum concentration value reported for that pollutant in the permit application.
 - b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels
 - (1) Five hundred micrograms per liter,
 - (2) One milligram per liter for antimony, or
 - (3) Ten times the maximum concentration value reported for that pollutant in the permit application.

E. Reopener Clause

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345, F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
 - b. Controls any pollutant not addressed in the permit.

The permit as revised or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

2. The permit may be reopened to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, or other information show a need for a different limitation or monitoring requirement.
3. The Department may develop a Total Maximum Daily Load (TMDL) during the life of the permit. Once a TMDL has been established and adopted by rule, the Department shall revise this permit to incorporate the final findings of the TMDL.

G. Specific Conditions Applicable to ASR Pilot Project NPDES Discharge Facility

1. The subject NPDES discharge facility is at present classified as a Group 7A (Minor) Industrial Wastewater facility. Under Rule 62-4.052(6)(m), F.A.C., the annual regulatory program and surveillance fee ("annual fee") for the permitted facility is set at \$5,800.00. The initial annual fee is pro-rated from the permit issuance date to

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the end of current calendar year, and is due no later than 60 days after permit issuance. The subsequent annual fee shall be due no later than January 15 each year.

2. Unless USEPA and the Department will in the future adopt a permit exemption policy for all ASR well related NPDES discharge activities, the permit renewal procedure in Permit Condition VII.C.1 shall stay in effect. The permit must be renewed if the facility will continue with the cycle testing, or advance to full operational status, beyond the current expiration date. Such an exemption policy if adopted could void the annual fee provision.
3. In accordance with Permit Condition VII.A.3, the permittee must obtain separately approvals from the Department's Underground Injection Control (UIC) program, and all other agencies that have a regulatory interest, before commencement of construction and operation of the Class V injection well and the ASR pilot project.

VIII. General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, F.S. Any permit noncompliance constitutes a violation of Chapter 403, F.S., and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1), F.A.C.]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2), F.A.C.]*
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringements of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. *[62-620.610(3), F.A.C.]*
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4), F.A.C.]*
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-620.610(5), F.A.C.]*
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. *[62-620.610(6), F.A.C.]*

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7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620.610(7), F.A.C.]*
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620.610(8), F.A.C.]*
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to
 - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
 - b. Have access to and copy any records that shall be kept under the conditions of this permit;
 - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
 - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.*[62-620.610(9), F.A.C.]*
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10), F.A.C.]*
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), F.A.C.]*
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12), F.A.C.]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13), F.A.C.]*

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14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the Department approves the transfer. *[62-620.610(14), F.A.C.]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15), F.A.C.]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rule 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16), F.A.C.]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17), F.A.C.]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
 - b. If the permittee monitors any contaminate more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
 - e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
 - f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220 and 62-160.330, F.A.C.*[62-620.610(18), F.A.C.]*

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19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. *[62-620.610(19), F.A.C.]*
20. The permittee shall report to the Department's Southeast District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
 - a. The following shall be included as information which must be reported within 24 hours under this condition:
 - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - (4) Any unauthorized discharge to surface or ground waters.
 - b. Oral reports as required by this subsection shall be provided as follows:
 - (1) For unauthorized releases or spills of untreated or treated wastewater reported pursuant to subparagraph a.(4) that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
 - (a) Name, address, and telephone number of person reporting;
 - (b) Name, address, and telephone number of permittee or responsible person for the discharge;
 - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
 - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - (e) Estimated amount of the discharge;
 - (f) Location or address of the discharge;
 - (g) Source and cause of the discharge;
 - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - (i) Description of area affected by the discharge, including name of water body affected, if any; and
 - (j) Other persons or agencies contacted.
 - (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.(1) above, shall be provided to Department's Southeast District Office within 24 hours from the time the permittee becomes aware of the circumstances.

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- c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Southeast District Office shall waive the written report.

[62-620.610(20), F.A.C.]

- 21. The permittee shall report all instances of noncompliance not reported under Conditions VIII.17., 18. and 19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Condition VIII.20. of this permit. *[62-620.610(21), F.A.C.]*

22. Bypass Provisions.

- a. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
 - (3) The permittee submitted notices as required under Condition VIII.22.b. of this permit.
- b. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Condition VIII.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Condition VIII.22 a.(1) through (3) of this permit.
- d. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of Condition VIII.22.a. through c. of this permit.

[62-620.610(22), F.A.C.]

23. Upset Provisions

- a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in Condition VIII.20. of this permit; and
 - (4) The permittee complied with any remedial measures required under Condition VIII.5. of this permit.
- b. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.

PERMITTEE:

U.S. Army Corps of Engineers
Jacksonville District Office
701 San Marco Boulevard
Jacksonville, FL 32207

PERMIT NUMBER: FL0569071

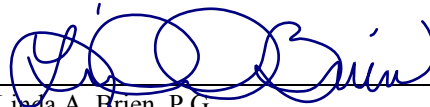
Issuance date: August 7, 2007
Expiration date: August 6, 2012

- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23), F.A.C.]

Executed in West Palm Beach, Florida.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Linda A. Brien, P.G.
Water Facilities Administrator, Southeast District

DATE: August 7, 2007

**AMENDMENT TO THE STATEMENT OF BASIS
AT THE TIME OF FINAL PERMIT ISSUANCE**

FACILITY I.D. NUMBER: FL0569071

PERMIT ISSUANCE DATE: (Refer to the stamped issuance date on the Notice of Permit)

APPLICATION NUMBER: FL0569071-001-IW7A

APPLICATION DATE: May 31, 2007 (application fee date); draft permit issued on June 26, 2007

PERMIT NUMBER: FL0569071 (Group IW7A Minor)

PERMIT WRITER [contact info.]: Paul Sze

NAME OF PERMITTEE: U.S. Army Corps of Engineers, Jacksonville District Office

FACILITY NAME: USACE - Kissimmee River Aquifer Storage and Recovery (ASR) Well Pilot Project Cycle Testing Recovered Water Discharge Facility

FACILITY LOCATION: East embankment of Kissimmee River at approximately 1 mile northwest of Hwy. 78 bridge over Kissimmee River
Okeechobee, FL 34947; Okeechobee County

1. Applicant's Comments on the Draft Permit:

Mr. Mark Shafer, P.E., with USACE, has provided on July 6, 2007, via email a list of 6 review comments with respect to the draft permit. The suggested changes or clarifications to the permit language were all considered of a minor nature, and were all adopted in the final permit. The changes are summarized as follows:

- (1) Permit Conditions No. I.A.8 & 9 on page 6 of the permit - The testing frequencies for total coliform and fecal coliform bacteria, in relation to the monthly average derivation, have been revised from that based on "a minimum of 10 samples over a 30 day period" to "the actual number of tests performed in the month". Under the testing guideline provided in the CERPRA permit, this number will be 4 to 6 samples/month.
- (2) Project Description, first paragraph, on defining recovery efficiency - changed from "recovery efficiency - ratio of recovery volume with acceptable water quality versus volume *stored*...." to "recovery efficiency - ratio of recovery volume with acceptable water quality versus volume *recharged*.....".
- (3) Project Description, first paragraph, on the deep injection well's permitting status - changed from "single 24-inch diameter Class V, Group 7 injection well (*permitted by others*)....." to "single 24-inch diameter Class V, Group 7 injection well (*permitted by others under UIC Permit No. 200917-001-UC, issued to South Florida Water Management District*).....".
- (4) Project Description, second paragraph, on the recharge/recovery pump description - changed from "The ASR well recharge and recovery pumps are rated at 3,600 and 3,500 gpm, respectively." to "The single ASR well pump has recharge and recovery capacities rated at 3,600 and 3,500 gpm, respectively."
- (5) Water Treatment, first paragraph, on the pressure filter description - changed from "a dual-media (anthracite and sand) pressure filter system....." to "a triple-media (sand, anthracite and gravel) pressure filter system.....".
- (6) Permit Condition I.A.2 (table) on page 5 of the permit - The following sentence is added to clarify the expectation on the location of Sample Point SWA-01: "Typically, it should be at least 50 feet to 100 feet

upstream of the outfall. The final location and distance should be determined on the field by the sampler, based on his/her assessment of the stream flow direction and velocity factors, and the estimated likely boundary limit of the impacted zone.”

2. Public Comments (from general public and other government agencies):

None received as of July 26, 2007, since issuance of draft permit on June 26, 2007.

3. Changes in Permit from Draft Permit to Final Permit Stage:

Besides the changes summarized above in item no. 1, there is one minor change on page 3 of the DMR form. Ms. Monica Sudano from DEP/Tallahassee has requested the STORET code of 80361 be indicated for the parameter methyl mercury. This change has been included in the final permit.

**STATEMENT OF BASIS
FOR
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
INDUSTRIAL WASTEWATER FACILITY PERMIT**

APPLICATION NUMBER FL0569071-001-IW7A

APPLICATION DATE May 31, 2007 (application fee acceptance date)

PERMIT NUMBER: FL0569071 (Minor)

PERMIT WRITER [contact info.]: Paul Sze [(561) 681-6747; email paul.sze@dep.state.fl.us]

NAME OF PERMITTEE: U.S. Army Corps of Engineers, Jacksonville District Office

FACILITY NAME: USACE - Kissimmee River Aquifer Storage and Recovery (ASR) Well
Pilot Project Cycle Testing Recovered Water Discharge Facility

FACILITY LOCATION: East embankment of Kissimmee River at approximately 1 mile northwest
of Hwy. 78 bridge over Kissimmee River
Okeechobee, FL 34947; Okeechobee County

FACILITY DESCRIPTION: (see narration part of permit)

DESCRIPTION OF WASTEWATER TREATMENT: (see narrative part of permit)

EFFLUENT DISPOSAL LOCATION(S):

Surface Water Discharge:

Outfall D-001: recovered groundwater from storage in an ASR well.
source and receiving waters: Kissimmee River, Class III Fresh.

Latitude: 27° 09' 17"

Longitude: 80° 52' 32"

Underground Injection:

This section is not applicable to this facility.

Land Application:

Land Application System R-001: process wastewater.
percolation pond

Latitude: 27° 09' 17"

Longitude: 80° 52' 32"

Internal Outfalls:

This section is not applicable to this facility.

BASIS FOR EFFLUENT LIMITS AND MONITORING REQUIREMENTS:

Outfall D-001

Parameter			Basis for Limit/Monitoring Requirement
Temperature (C), Water (DEG.C)	DEG.C	Daily Maximum	62-302.530 F.A.C.
Turbidity (Background) (NTU)	NTU	Daily Maximum	62-302.530 F.A.C.
Color (PT-CO)	PT-CO	Daily Maximum	62-302.530 F.A.C.
Specific Conductance (Background) (UMHO/CM)	UMHO/CM	Daily Maximum	62-302.530 F.A.C.
Oxygen, Dissolved (DO) (MG/L)	MG/L	Daily Minimum	62-302.530 F.A.C.
pH (SU)	SU	Daily Minimum	62-302.530 F.A.C.
		Daily Maximum	62-302.530 F.A.C.
Solids, Total Suspended (MG/L)	MG/L	Daily Maximum	62-302.530 F.A.C.
Phosphorus, Total (as P) (MG/L)	MG/L	Daily Maximum	62-302.530 F.A.C.
Carbon, Total Organic (TOC) (MG/L)	MG/L	Daily Maximum	62-302.530 F.A.C.
Chloride (as Cl) (MG/L)	MG/L	Daily Maximum	62-302.530 F.A.C.
Sulfate, Total (MG/L)	MG/L	Daily Maximum	62-302.530 F.A.C.
Arsenic, Total Recoverable (UG/L)	UG/L	Daily Maximum	62-302.530 F.A.C.
Iron, Total Recoverable (MG/L)	MG/L	Daily Maximum	62-302.530 F.A.C.
Flow (MGD)	MGD	Monthly Average	BPJ
		Daily Maximum	BPJ
Solids, Total Dissolved (TDS) (MG/L)	MG/L	Daily Maximum	62-302.530 F.A.C.
Mercury, Dissolved (UG/L)	UG/L	Daily Maximum	62-302.530 F.A.C.
Mercury, Total Recoverable (UG/L)	UG/L	Daily Maximum	62-302.530 F.A.C.
Coliform, Fecal (#/100ML)	#/100ML	Daily Maximum	62-302.530 F.A.C.
Coliform, Total (#/100ML)	#/100ML	Daily Maximum	62-302.530 F.A.C.
Alpha, Gross Particle Activity (PCI/L)	PCI/L	Daily Maximum	62-302.530 F.A.C.
Flow, Total Volume (MGAL)	MGAL	Monthly Average	BPJ

The following were used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the permit and in this document are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-4	05-01-03
62-302	05-15-02
62-520	12-09-96
62-522	08-27-01
62-550	05-28-03
62-620	08-25-03
62-650	12-26-96
62-660	10-01-98

B. FS refers to various portions of the Florida Statutes

C. CFR refers to various portions of the Code of Federal Regulations, Title 40

D. BPJ refers to Best Professional Judgment

E. CWA refers to the Clean Water Act

The facility has provided reasonable assurance that the discharge will not adversely affect the designated use of receiving water. Fifth year inspection data, as well as all other available data, have been evaluated in

Statement of Basis (cont'd)

accordance with the Department's reasonable assurance procedures to ensure that no limits other than those included in this permit are needed to maintain Florida water quality standards.

The facility is required to conduct Acute Definitive 100% (LC50 > 100%) toxicity testing based on the permit writer's best professional judgment and review of the following information.

Land Application System R-001

There is no Reported Basis available. The discharge to the land application system consisting mostly of first flush in startup, and filter backwash water from the pressure filter treatment process, is generally considered insignificant in both the quantitative and qualitative aspects. Both streams are short-duration in nature, and should contain only low levels of innocuous particulate matters and other debris removed from the well recharge and recovery processes.

GROUND WATER MONITORING REQUIREMENTS

Groundwater monitoring requirement is deemed not necessary for this project.

ADMINISTRATIVE ORDERS (AO) AND CONSENT ORDERS (CO)

The permit is not accompanied by an AO, and has not entered into a CO with the Department.

PERMIT SCHEDULES

This section is applicable for BMP.

EFFECTS OF SURFACE WATER DISCHARGE ON THREATENED OR ENDANGERED SPECIES

The Department does not anticipate adverse impacts on threatened or endangered species as a result of permit issuance.

DISCUSSION OF GENERAL ISSUES RELATED TO ISSUANCE OF DRAFT PERMIT

The draft permit is prepared in full conformance with the permitting guidelines as established in the Comprehensive Everglades Restoration Plan Regulation Act (CEPRA) Permit, No. 0236494-003-GL, issued by the Department on December 21, 2005, which authorizes construction and cycle testing of the subject ASR pilot project.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551 , 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: U.S. Army Corps of Engineers - Jacksonville District Office
MAILING ADDRESS: 701 San Marco Boulevard
Jacksonville FL 32207

PERMIT NUMBER: FL0569071

LIMIT: Final
CLASS SIZE: Minor

REPORT: Monthly
GROUP: Industrial

FACILITY: USACE - Kissimmee River ASR Cycle Testing Discharge
LOCATION: 1 mile northwest of Hwy 78 Bridge over Kissimmee River
Okeechobee, Florida 34974

MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESC: Kissimmee River Outfall

COUNTY: Okeechobee

NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. EFF-01	Permit Requirement	Report (Mo.Avg.)	5.0 (Day.Max.)	MGD						Daily	Meter
Flow, Total Volume	Sample Measurement										
PARM Code 82220 1 Mon. Site No. EFF-01	Permit Requirement	Report (Mo. Total)		MGAL						Daily	Meter
Chloride (as Cl)	Sample Measurement										
PARM Code 00940 1 Mon. Site No. EFF-01	Permit Requirement					Report (Day.Max.)	MG/L			Monthly	Grab
Specific Conductance (effluent)	Sample Measurement										
PARM Code 00095 1 Mon. Site No. EFF-01	Permit Requirement					Report (Day.Max.)	UMHO/CM			Monthly	Grab
Specific Conductance (Background)	Sample Measurement										
PARM Code 00095 P Mon. Site No. SWA-01	Permit Requirement					Report (Day.Max.)	UMHO/CM			Monthly	Grab
Specific Conductance (calculated limit)	Sample Measurement										
PARM Code 00095 Q Mon. Site No. EFF-01	Permit Requirement					Report (Day.Max.)	UMHO/CM			Monthly	Calculated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: USACE - Kissimmee River ASR Cycle Testing Discharge

MONITORING GROUP NUMBER: D-001

PERMIT NUMBER: FL0569071

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Specific Conductance (effluent minus calculated limit)	Sample Measurement										
PARM Code 00095 R Mon. Site No. EFF-01	Permit Requirement						0.00 (Day.Max.)	UMHO/ CM		Monthly	Calculated
Solids, Total Dissolved (TDS)	Sample Measurement										
PARM Code 70295 1 Mon. Site No. EFF-01	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Temperature (C), Water	Sample Measurement										
PARM Code 00010 1 Mon. Site No. EFF-01	Permit Requirement						Report (Day.Max.)	DEG.C		Monthly	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-01	Permit Requirement					6.0 (Day.Min.)	8.5 (Day.Max.)	SU		Monthly	Grab
Arsenic, Total Recoverable	Sample Measurement										
PARM Code 00978 1 Mon. Site No. EFF-01	Permit Requirement						36 (Day.Max.)	UG/L		Monthly	Grab
Alpha, Gross Particle Activity	Sample Measurement										
PARM Code 80045 1 Mon. Site No. EFF-01	Permit Requirement						15 (Day.Max.)	PCI/L		Monthly	Grab
Coliform, Total	Sample Measurement										
PARM Code 74056 1 Mon. Site No. EFF-01	Permit Requirement					1,000 (Mo. Avg.)	1,000 (80th percentile)	2,400 (Maximum)	#/100ML	Monthly	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 1 Mon. Site No. EFF-01	Permit Requirement					200 (Mo. Avg.)	400 (90th percentile)	800 (Maximum)	#/100ML	Monthly	Grab
Carbon, Total Organic (TOC)	Sample Measurement										
PARM Code 00680 1 Mon. Site No. EFF-01	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Turbidity (effluent)	Sample Measurement										
PARM Code 00070 1 Mon. Site No. EFF-01	Permit Requirement						Report (Day.Max.)	NTU		Monthly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: USACE - Kissimmee River ASR Cycle Testing Discharge

MONITORING GROUP NUMBER: D-001

PERMIT NUMBER: FL0569071

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Turbidity (Background)	Sample Measurement										
PARM Code 00070 P Mon. Site No. SWA-01	Permit Requirement						Report (Day.Max.)	NTU		Monthly	Grab
Turbidity (calculated limit)	Sample Measurement										
PARM Code 00070 Q Mon. Site No. EFF-01	Permit Requirement						Report (Day.Max.)	NTU		Monthly	Calculated
Turbidity (effluent minus calculated limit)	Sample Measurement										
PARM Code 00070 R Mon. Site No. EFF-01	Permit Requirement						0.00 (Day.Max.)	NTU		Monthly	Calculated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-01	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 1 Mon. Site No. EFF-01	Permit Requirement					5.0 (Day.Min.)		MG/L		Monthly	Grab
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 1 Mon. Site No. EFF-01	Permit Requirement						1.0 (Day.Max.)	MG/L		Monthly	Grab
Color	Sample Measurement										
PARM Code 00080 1 Mon. Site No. EFF-01	Permit Requirement						Report (Day.Max.)	PT-CO		Monthly	Grab
Mercury, Total Recoverable	Sample Measurement										
PARM Code 71901 1 Mon. Site No. EFF-01	Permit Requirement						0.012 (Day.Max.)	UG/L		Monthly	Grab
Mercury, Methyl	Sample Measurement										
PARM Code 80361 1 Mon. Site No. EFF-01	Permit Requirement						Report (Day.Max.)	UG/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFF-01	Permit Requirement						see permit (Day.Max.)	MG/L		Monthly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: USACE - Kissimmee River ASR Cycle Testing Discharge

MONITORING GROUP NUMBER: D-001

PERMIT NUMBER: FL0569071

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Sulfate, Total	Sample Measurement										
PARM Code 00945 1 Mon. Site No. EFF-01	Permit Requirement						Report (Day.Max.)	MG/L		Monthly	Grab
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
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	Sample Measurement										
	Permit Requirement										

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551 , 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: U.S. Army Corps of Engineers - Jacksonville District Office
MAILING ADDRESS: 701 San Marco Boulevard
Jacksonville FL 32207

PERMIT NUMBER FL0569071

LIMIT: Final
CLASS SIZE: Minor

REPORT: Toxicity
GROUP: Industrial

FACILITY: USACE - Kissimmee River ASR Cycle Testing Discharge
LOCATION: 1 mile northwest of Hwy 78 Bridge over Kissimmee River
Okeechobee, Florida 34974

MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESC: Kissimmee River Outfall

COUNTY: Okeechobee

NO DISCHARGE FROM SITE: ☐

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia(Routine)	Sample Measurement										
PARM Code TAN3B P Mon. Site No. EFF-01	Permit Requirement				100 (Min.)			PER-CENT		bimonthly	1 grab/ 24 hour
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia(Additional)	Sample Measurement										
PARM Code TAN3B Q Mon. Site No. EFF-01	Permit Requirement				100 (Min.)			PER-CENT		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi(Routine)	Sample Measurement										
PARM Code TAN6H P Mon. Site No. EFF-01	Permit Requirement				100 (Min.)			PER-CENT		bimonthly	1 grab/ 24 hour
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi(Additional)	Sample Measurement										
PARM Code TAN6H Q Mon. Site No. EFF-01	Permit Requirement				100 (Min.)			PER-CENT		As needed	As required by the permit
	Sample Measurement										
	Permit Requirement										
	Sample Measurement										
	Permit Requirement										

*IF A SECOND DEFINITIVE TEST IS REQUIRED, ENTER THE RESULT IN AN EMPTY ROW.

**ENTER NODI=C IN THE RESULTS COLUMN IF NO DISCHARGE OCCURRED DURING THIS REPORTING PERIOD.

ENTER NODI=9 IN THE RESULTS COLUMN IF NO DEFINITIVE TESTS ARE REQUIRED.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions as well as the SUPPLEMENTAL INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

Add the results to get the Total and divide by the number of days in the month to get the Monthly Average.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.